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# Kallmann syndrome-heart disease syndrome

INSERM

## Source

INSERM. (1999). *Orphanet: an online rare disease and orphan drug data base. Kallmann syndrome-heart disease syndrome. ORPHA:2326*

Kallmann syndrome with cardiopathy is characterised by hypogonadotropic hypogonadism associated with gonadotropin-releasing hormone (GnRH) deficiency, anosmia or hyposmia (with hypoplasia or aplasia of the olfactory bulbs) and complex congenital cardiac malformations (double-outlet right ventricle, dilated cardiomyopathy, right aortic arch). It represents a distinct clinical entity from Kallmann syndrome.